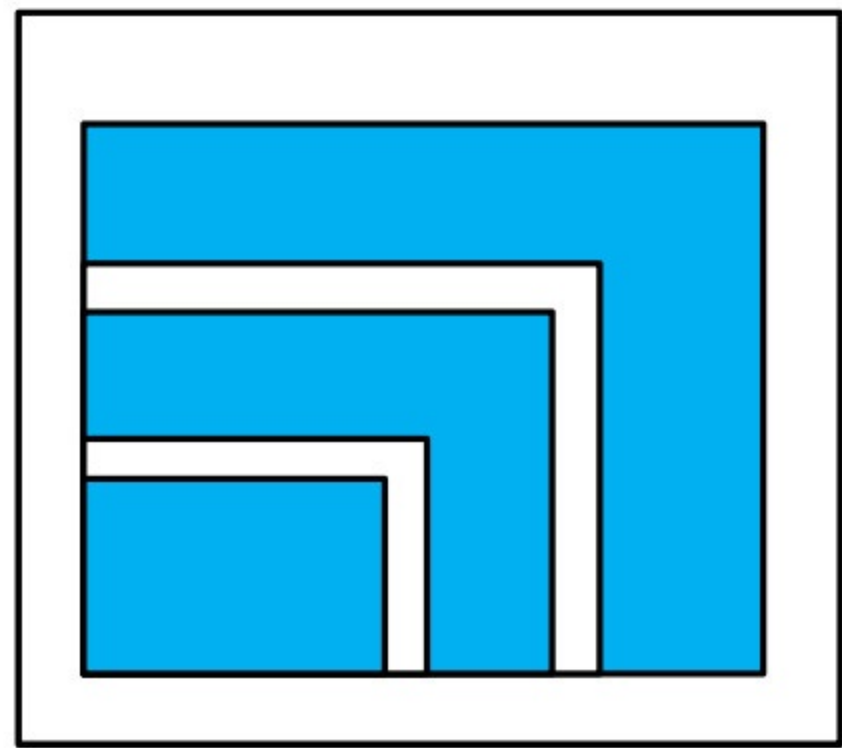
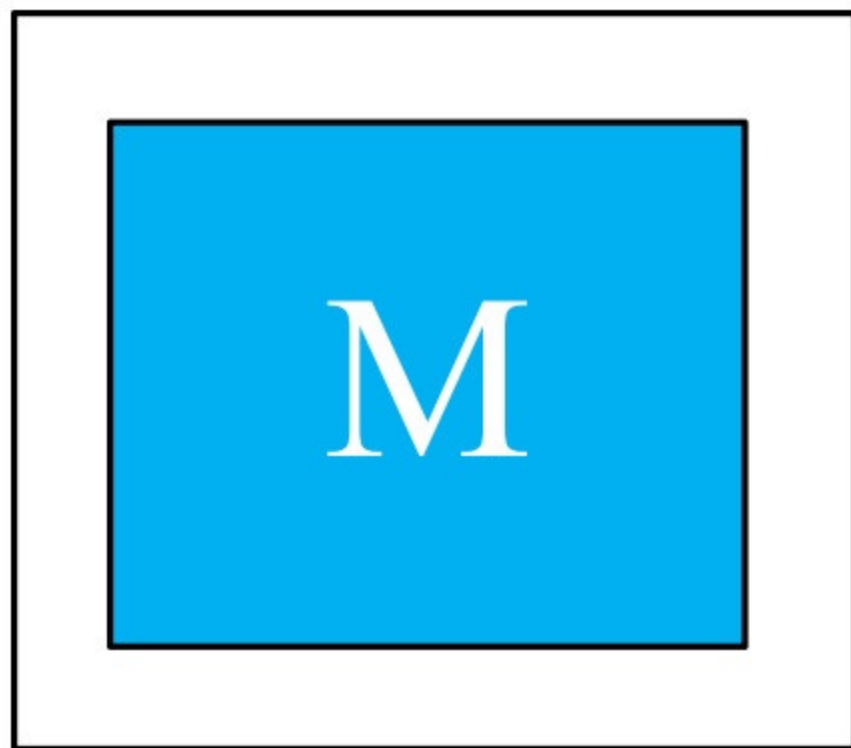


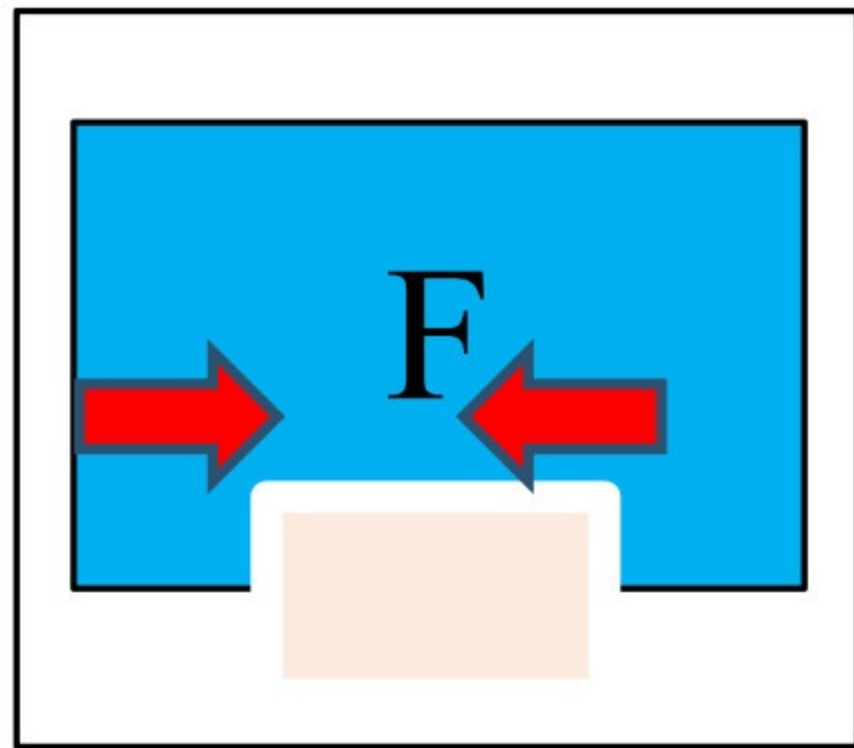
长行程二指平动手爪 / Long Stroke 2-jaw parallel Gripper series
ALE



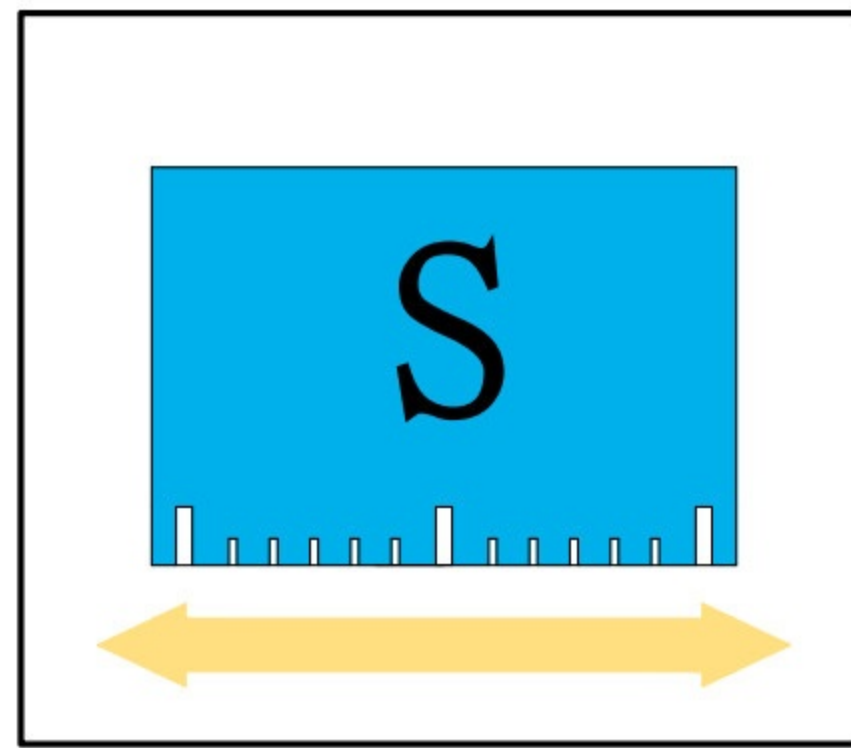
Sizes
30...63



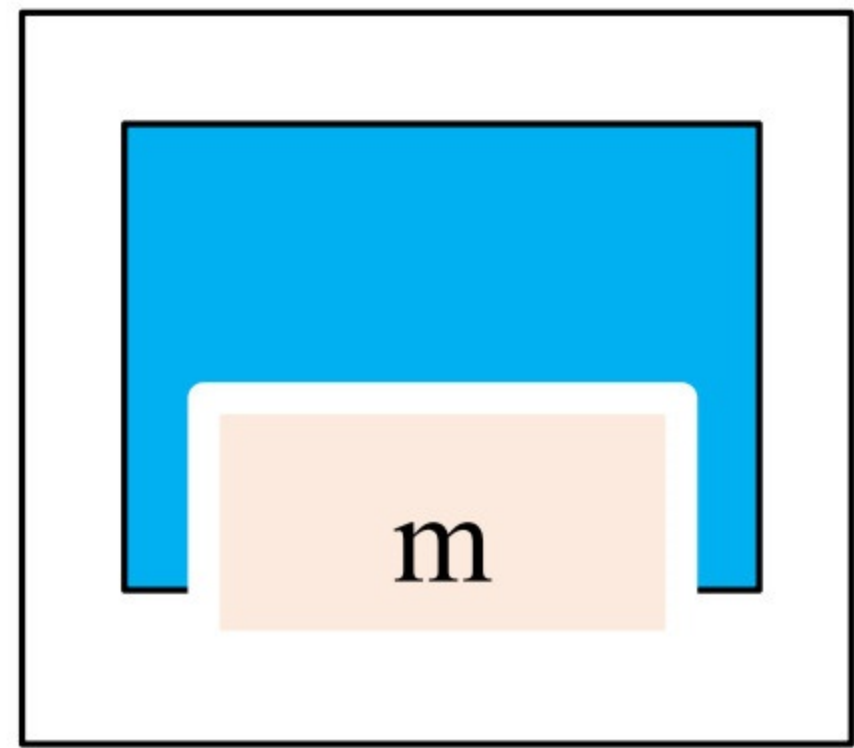
Weight
3.7...16Kg



Gripping Force
850...3045 N

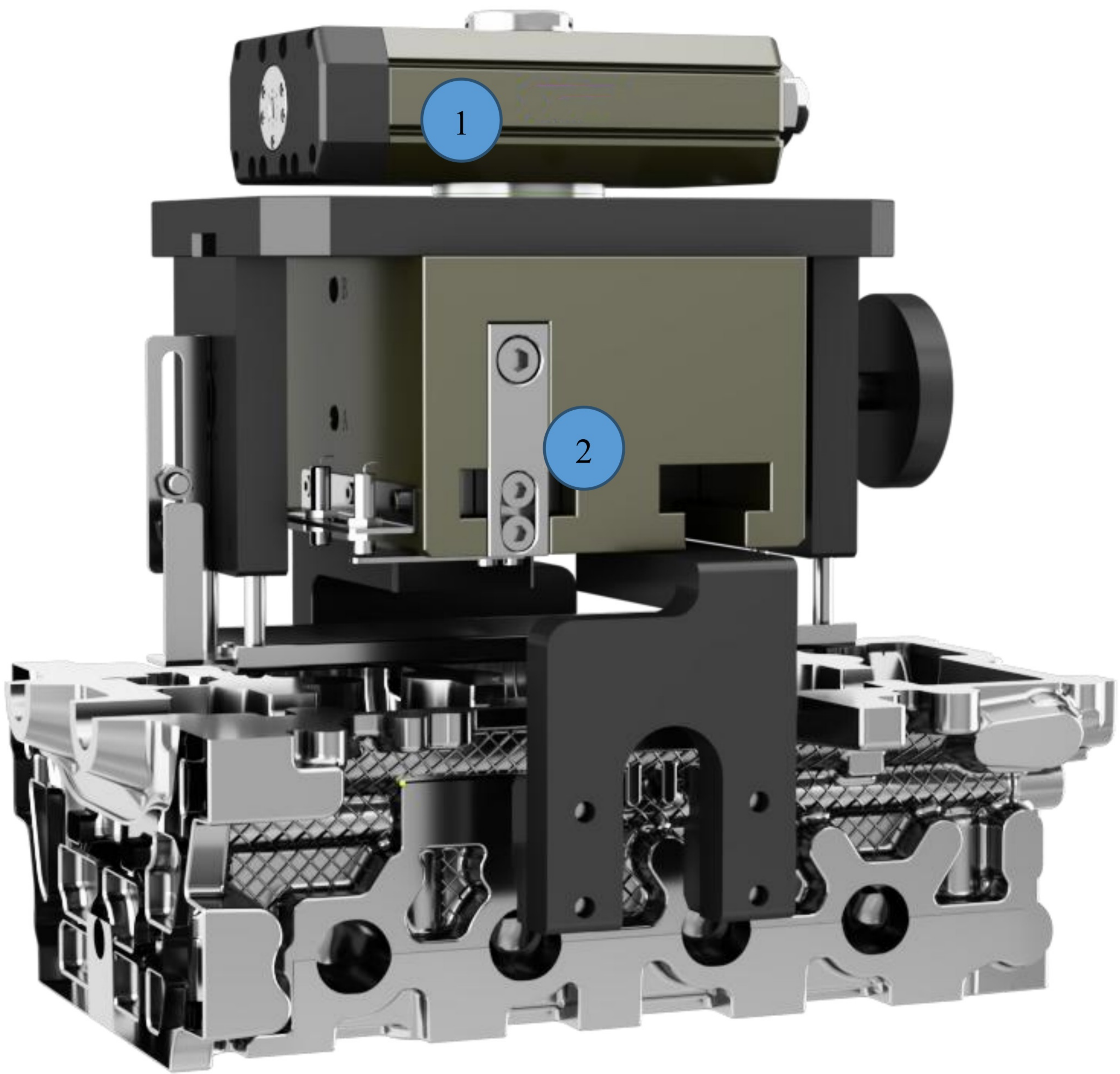


Stroke finger
50...100



Workpiece weight
4...15Kg

应用案例 / Application example



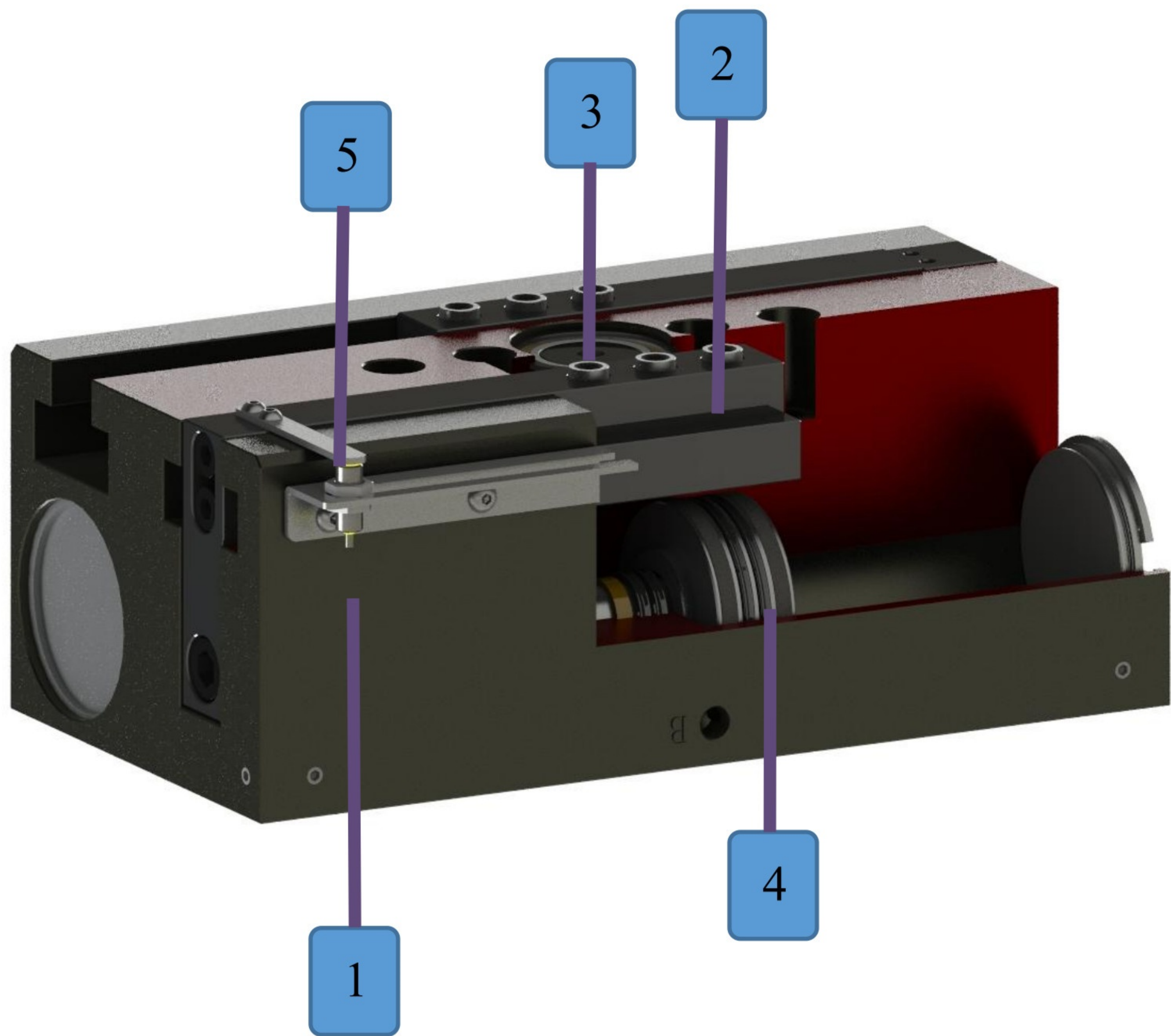
① SRP40-90 旋转模块

SRP40-90 Swivel Head

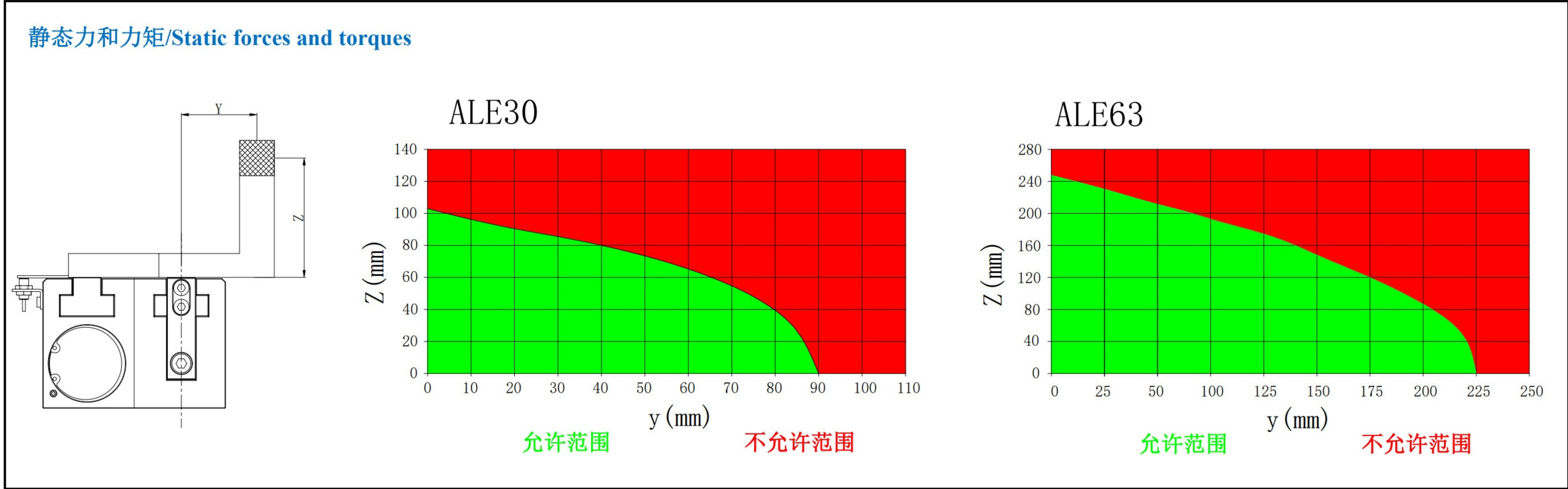
② ALE63-100 长行程二指平动手爪

ALE63-100 Long Stroke 2-jaw parallel Gripper

剖视图 / Sectional diagram



- 1 本体 Housing
涂层处理的高强度铝合金
High-strength aluminum alloy, anodized
- 2 T 型导轨 T-slot guidance
重负载导轨：负载更长的手指长度
Heavy load rails, robust base jaw guidance for extremely long gripper fingers
- 3 传动方式 Transmission Model
高动力传输
High power transmission
- 4 驱动部分 Energy supply
圆形活塞，提供更大的夹持力
Large Circular piston:can have greater force
- 5 传感系统 Sensor system
接近式传感器
Of gripper jaw via proximity switch



传感系统 Sensor system

接近开关 / Proximity switch (选购/Order)

型号(NO.)	
NPN	WPS-8GM35N
PNP	WPS-8GM35P

●传感器成对使用
●Two sensors (NO contacts) are required for each swivel unit.

手爪气动连接原理图

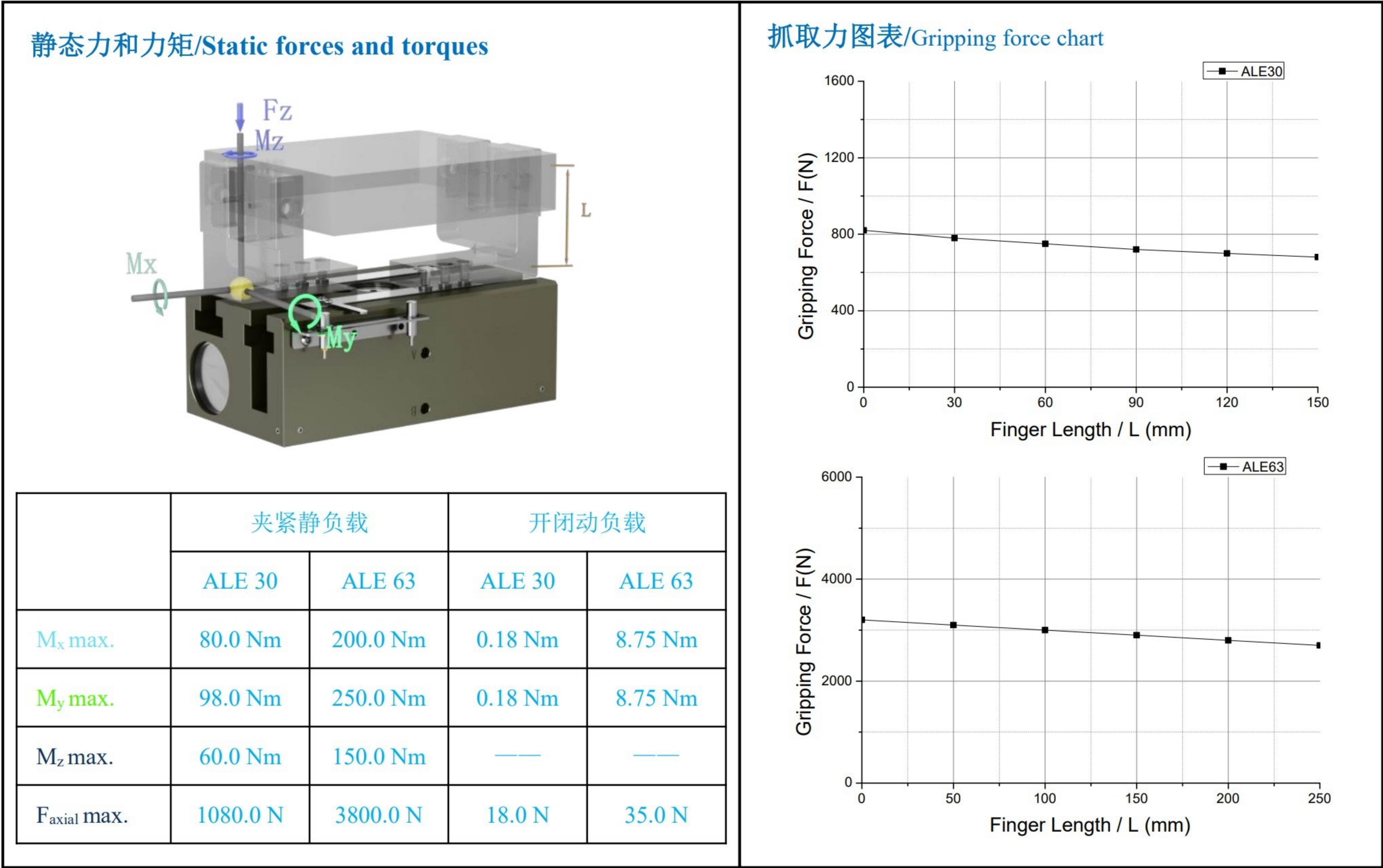
手爪适配气管及电磁阀有效截面积建议值

型号	ALE			
	30-50	30-100	63-50	63-100
气管直径 (mm)	≥6	≥6	≥8	≥8
电磁阀有效截面积 (Cv/mm²)	≥17	≥28	≥28	≥28

长行程二指平动手爪 / Long Stroke 2-jaw parallel Gripper series

ALE

ALE



❖所有参数为气压 6bar 下测试/All data measured at 6bar

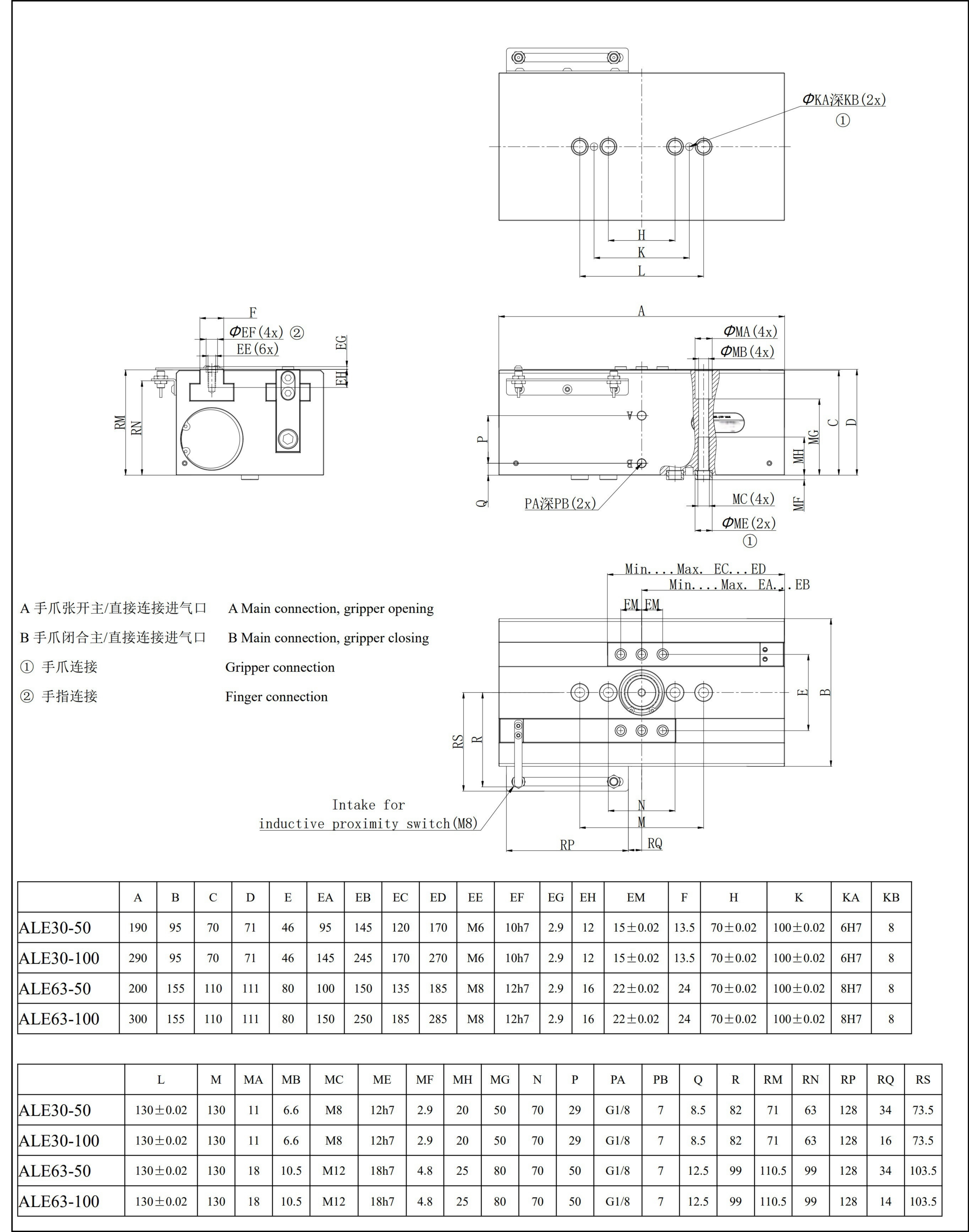
技术资料 Technical data

Description		ALE30-50	ALE30-100	ALE63-50	ALE63-100
手指单边行程 Stroke per finger	mm	50	100	50	100
理论夹持力-闭 Closing force	夹持力 $F=k*P$ (k:系数, P:bar)	N	136*P	136*P	516*P
	6bar 气压下夹持力	N	816	816	3096
理论夹持力-开 Opening force	夹持力 $F=k*P$ (k:系数, P:bar)	N	120*P	120*P	507.5*P
	6bar 气压下夹持力	N	720	720	3045
使用压力范围 Max./Min. operating pressure	bar	3/8			
自重 Self weight	Kg	3.7	5.5	10	16
空气消耗量/周期 Air consumption per double stroke	cm ³	172	350	600	1200
开/闭时间 Closing/opening time	s	0.5/0.5	0.8/0.8	0.5/0.5	1.0/1.0
重复精度 Repeat accuracy	mm	0.05	0.05	0.05	0.05
最大手指长度 Max. permitted finger length	mm	100	100	250	250
单个手指最大重量 Max. permitted weight per finger	Kg	1.8	1.8	3.5	3.5
适应最小/最大环境温度 Min./Max. ambient temperature	°C	标准型 : 5/80 高温型 (-R) : 5/200			
IP 等级 IP class		46			

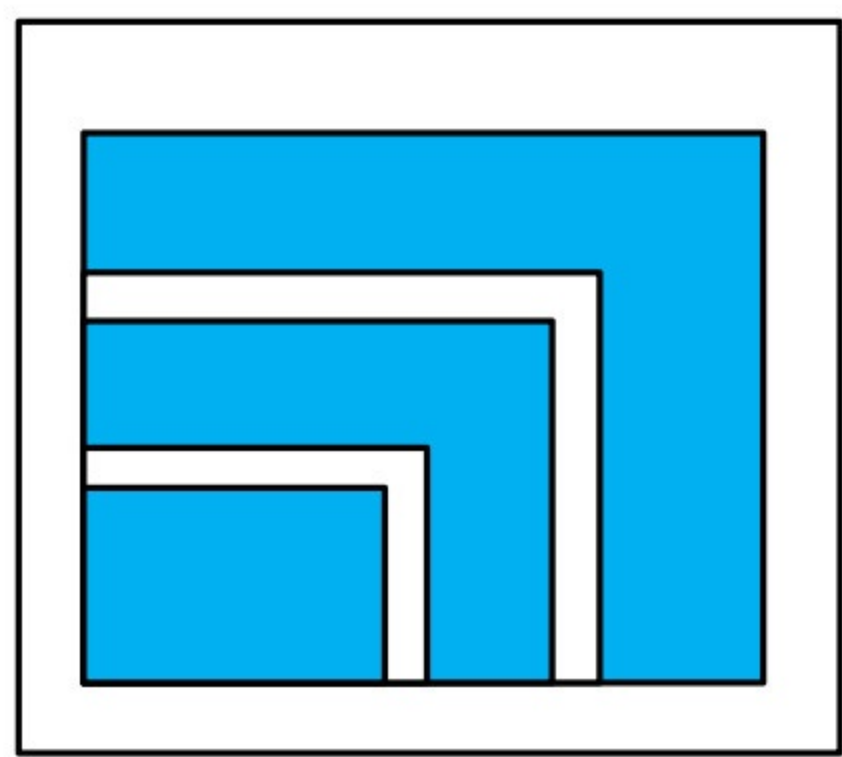
◇P: 空气压力[bar], 手指夹持工件作用点到手指安装面距离 L [mm] *重复精度: 连续动作 100 次后检测值

◇P: Pressure [bar], L:The distance from the point of the Finger gripping the workpiece to the finger mounting surface [mm] *Repeat accuracy is defined as the spread of the limit position after 100 consecutive strokes

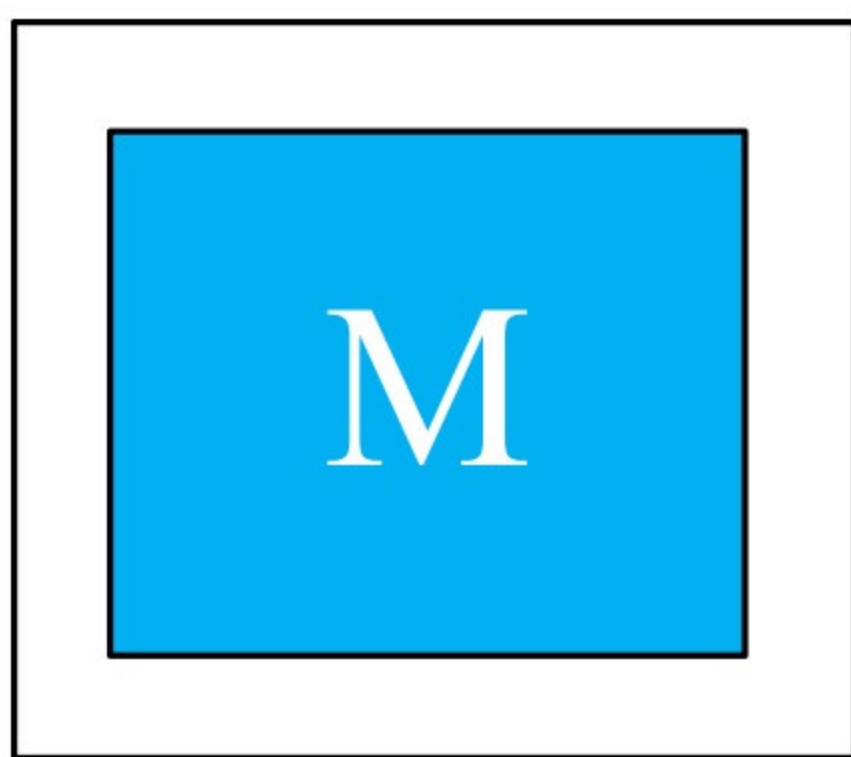
尺寸图/Dimensions



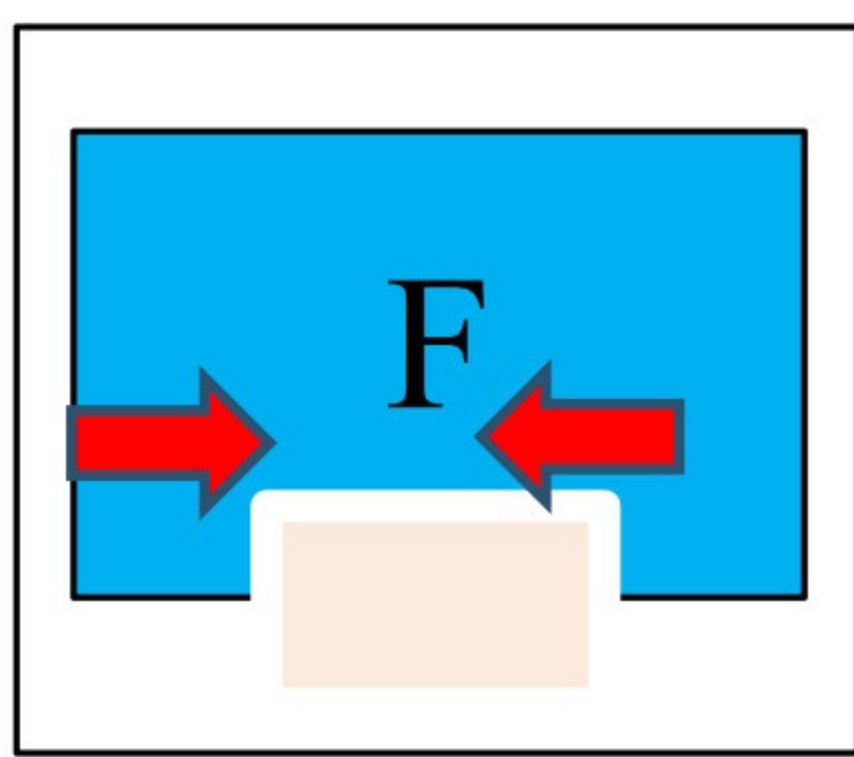
2 指长行程重型手爪 / 2-Finger Heavy-load Gripper series
ALH



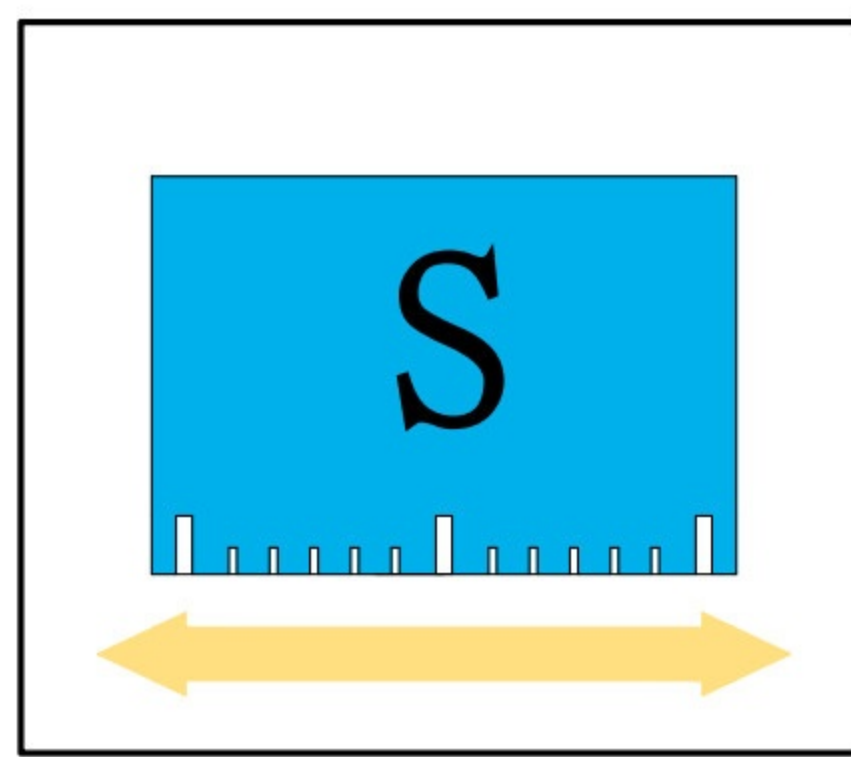
Sizes
63.....80



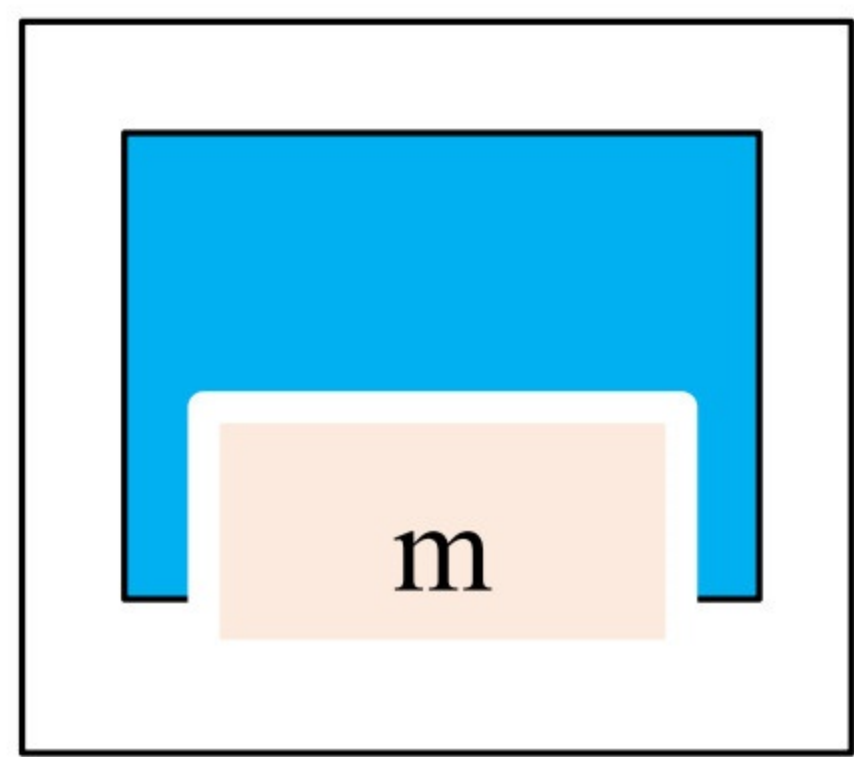
Weight
22...25Kg



Gripping Force
3300...5574N

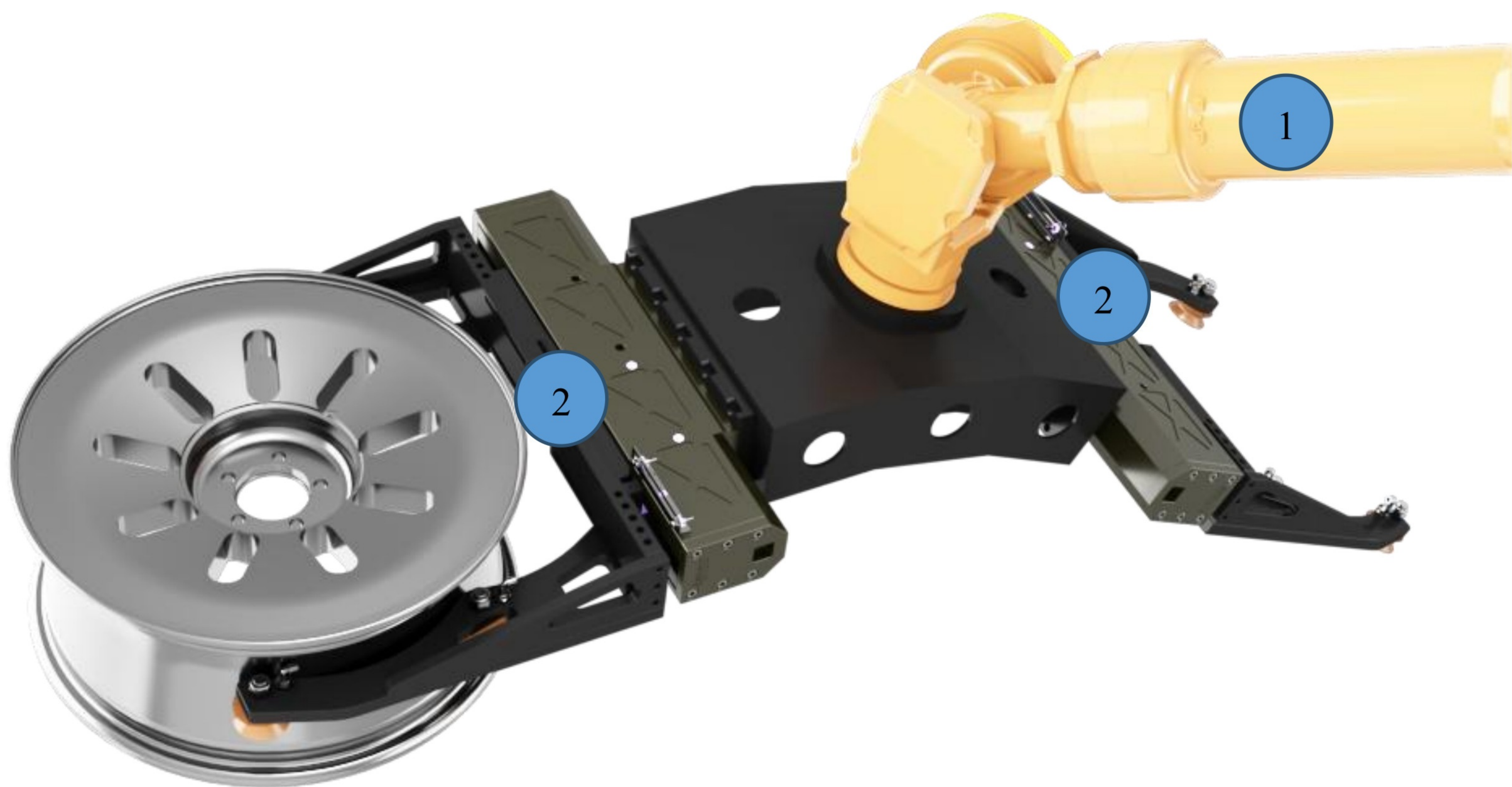


Stroke per finger
100mm



Workpiece weight
30..50Kg

应用案例 / Application example



- ① 机器人
- ② ALH63-100 2 指长行程重型手爪

Robot
ALH63-100 2-Finger Heavy-load Gripper

2 指长行程重型手爪 / 2-Finger Heavy-load Gripper

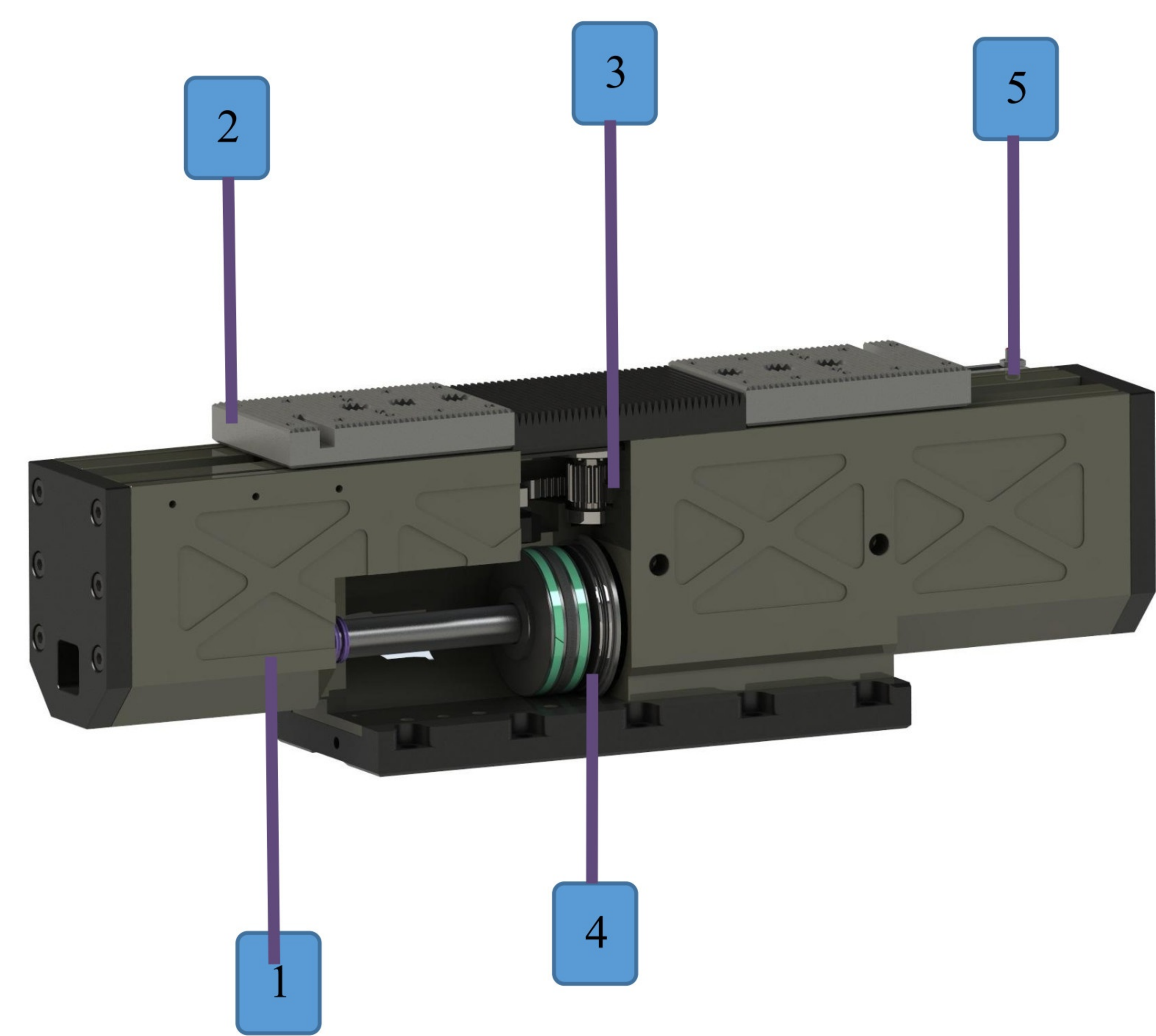
原理

- 压缩空气推动圆形活塞上下运动
- 驱动力直接转化为夹持力
- 滑块同步运动

Principle

- The Circular piston is moved up or down by means of compressed air
- The driving force is directly converted into clamping force
- Synchronous gripping movement of both base jaws

剖视图 / Sectional diagram



- 1 本体 Housing
涂层处理的高强度铝合金
High-strength aluminum alloy, anodized
- 2 T 型导轨 T-slot guidance
重负载导轨：负载更长的手指长度
Heavy load rails, robust base jaw guidance for extremely long gripper fingers
- 3 传动方式 Transmission Model
高动力传输
High power transmission
- 4 驱动部分 Energy supply
圆形活塞，提供更大的夹持力
Large Circular piston: can have greater force
- 5 传感系统 Sensor system
接近式传感器
Of gripper jaw via proximity switch

传感系统 Sensor system

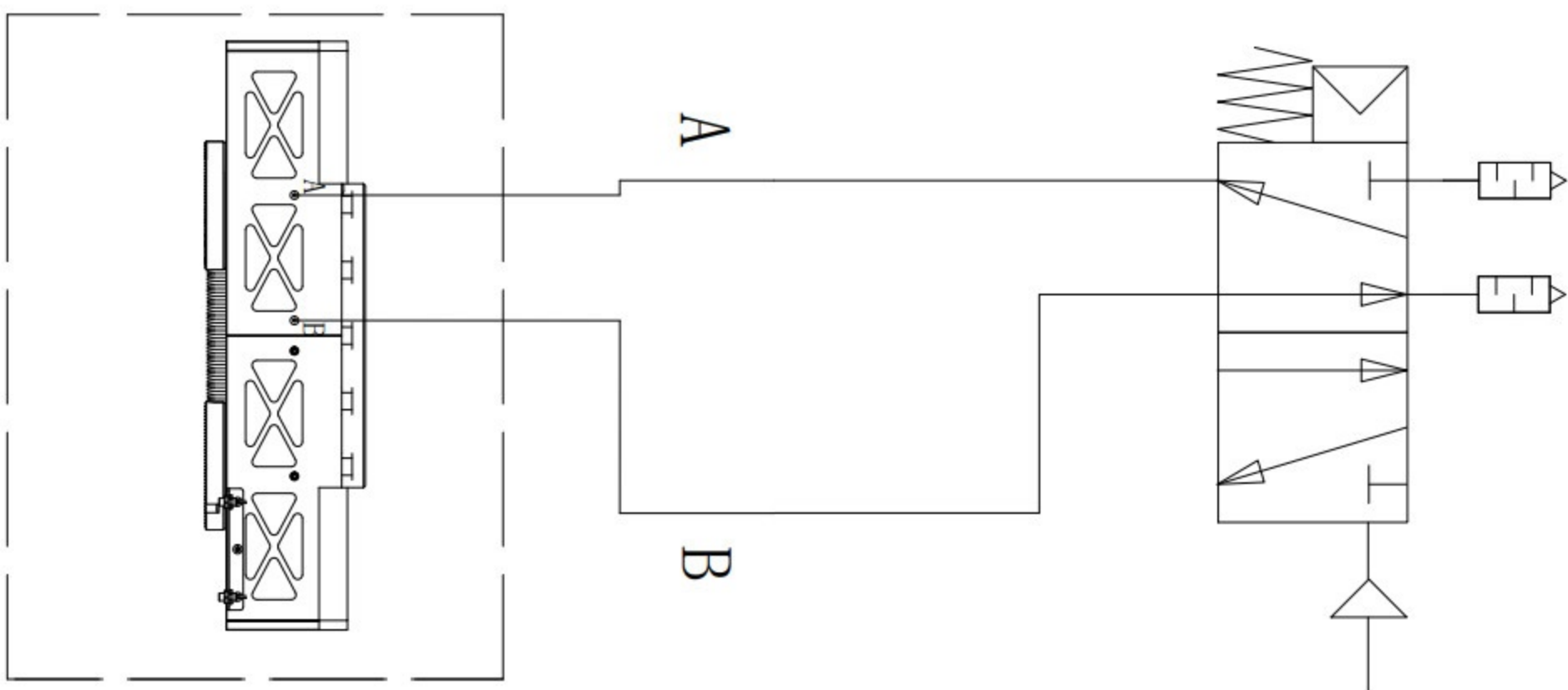
接近开关 / Proximity switch (选购/Order)



型号(NO.)	
NPN	WPS-8GM35N
PNP	WPS-8GM35P

- 传感器成对使用
- Two sensors (NO contacts) are required for each swivel unit.

手爪气动连接原理图



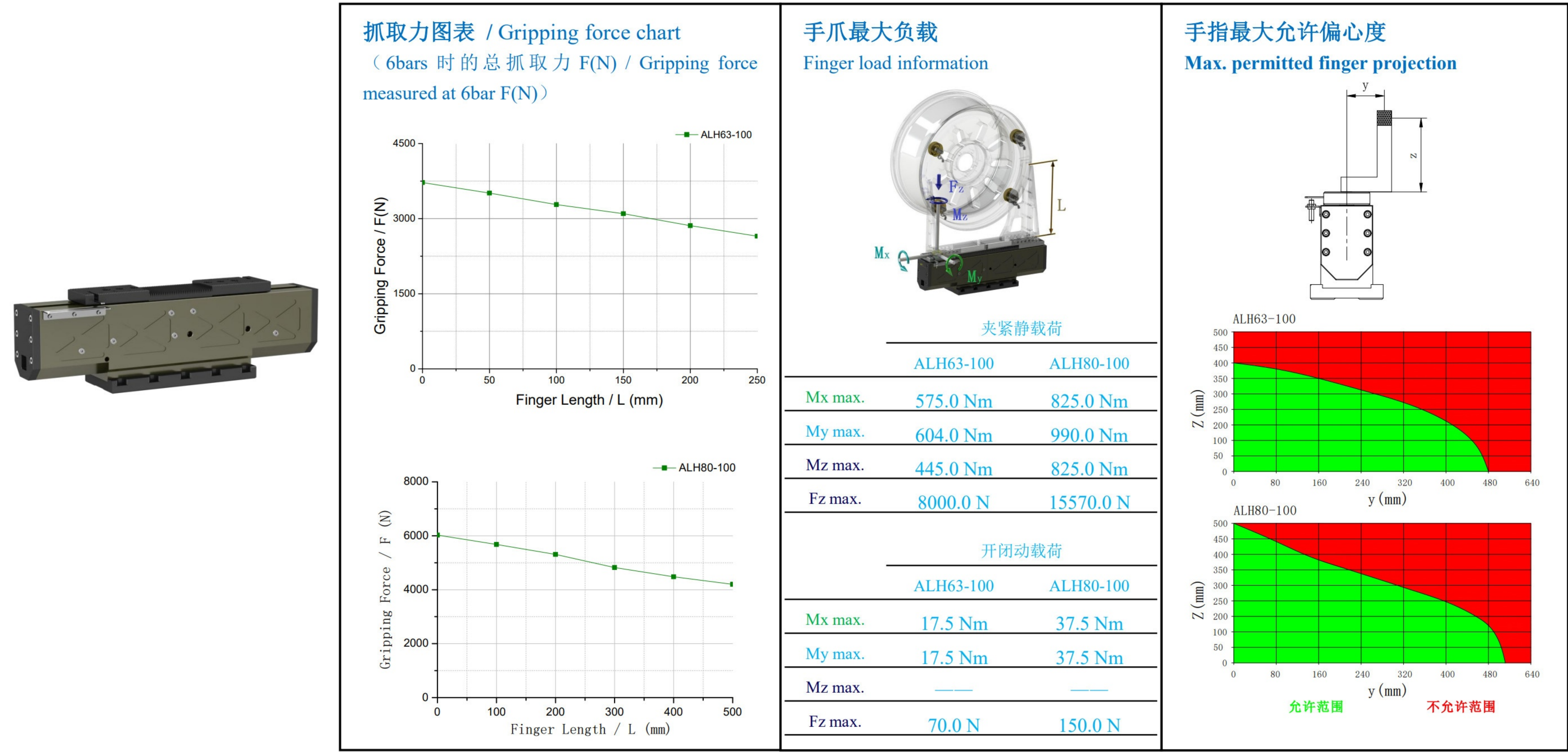
手爪适配气管及电磁阀有效截面积建议值

型号	ALH	
	63-100	80-100
气管直径 (mm)	≥8	≥8
电磁阀有效截面积 (Cv/mm ²)	≥48	≥48

2 指长行程重型手爪 / 2-Finger Heavy-load Gripper series

ALH

ALH



❖所有参数为气压 6bar 下测试/All data measured at 6bar

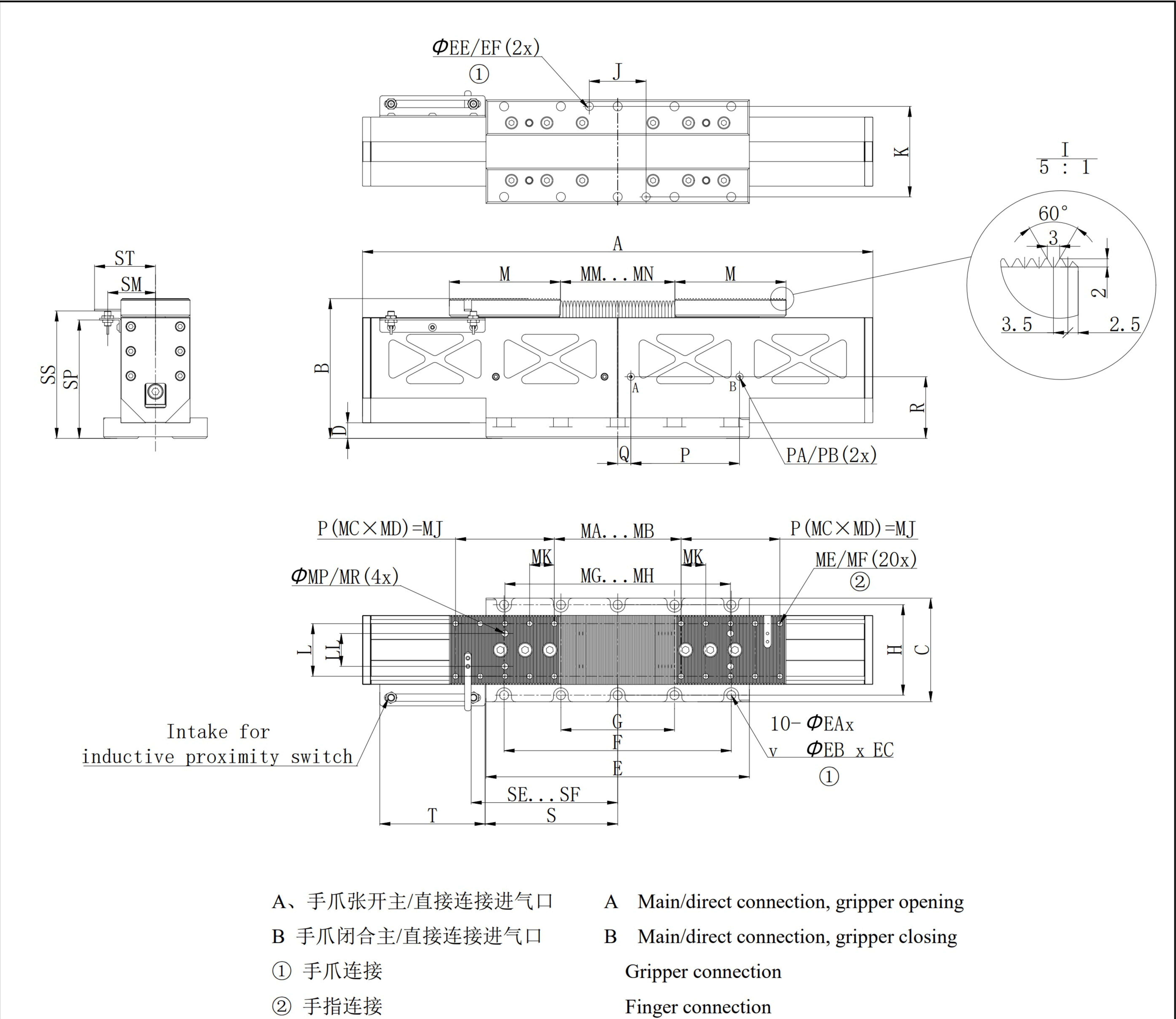
技术资料/Technical data

Description		ALH63-100	ALH80-100
手指单边行程 Stroke per finger	mm	100	100
理论夹持力-闭 Closing force	夹持力 $F=k*P$ (k:系数, P:bar)	N	555*P
	6bar 气压下夹持力	N	3330
理论夹持力-开 Opening force	夹持力 $F=k*P$ (k:系数, P:bar)	N	598*P
	6bar 气压下夹持力	N	3588
使用压力范围 Max./Min. operating pressure	bar	3/8	3/8
自重 Self weight	Kg	22	25
空气消耗量/周期 Air consumption per double stroke	cm ³	1246	1055
开/闭时间 Closing/opening time	s	0.8/0.8	1.0/1.0
重复精度 Repeat accuracy	mm	0.1	0.1
最大手指长度 Max. permitted finger length	mm	400	500
单个手指最大重量 Max. permitted weight per finger	Kg	7	15
适应最小/最大环境温度 Min./Max. ambient temperature	°C	标准型 : 5/80 高温型 (-R) : 5/200	标准型 : 5/80 高温型 (-R) : 5/200
IP 等级 IP class		46	46

◇P: 空气压力[bar], 手指夹持工件作用点到手指安装面距离 L [mm] *重复精度: 连续动作 100 次后检测值

◇P: Pressure [bar], L:The distance from the point of the Finger gripping the workpiece to the finger mounting surface [mm] *Repeat accuracy is defined as the spread of the limit position after 100 consecutive strokes

尺寸图/Dimensions



型号	A	B	C	D	E	EA	EB	EC	EE	EF	F	G	H	J	K	L	LL	M	MA	MB	MC
ALH63-100	620	170	126	19	320	11	18	11	10H7	15	276	138	110	69±0.02	110±0.02	64	40±0.02	135	154	354	30
ALH80-100	630	192	126	33	320	11	18	11	10H7	15	276	138	110	69±0.02	110±0.02	64	40±0.02	135	154	354	30

型号	MD	ME	MF	MG	MH	MJ	MK	MM	MN	MP	MR	P	PA	PB	Q	R	S	SE	SF	SM	SP	SS	ST	T
ALH63-100	4	M8	15	274	474	120	30	139	339	8H7	12	132	G1/8	8	17	75	161	178	278	58	144	155	74	128
ALH80-100	4	M8	15	274	474	120	30	139	339	8H7	12	132	G1/4	12	17	99	166	178	278	63.5	166	177	74	128